

Spark Ignition Marine Vessel Evaporative Certification

For Evaporative Component Manufacturers

April 28, 2010



Evaporative Component Certification

- All evaporative components (fuel tanks, fuel hoses and carbon canisters) must be certified by ARB
- Evaporative component manufacturers apply for certification and receive an Executive Order (EO)
- All evaporative components must be tested following ARB adopted test procedures



Evaporative Component Labeling

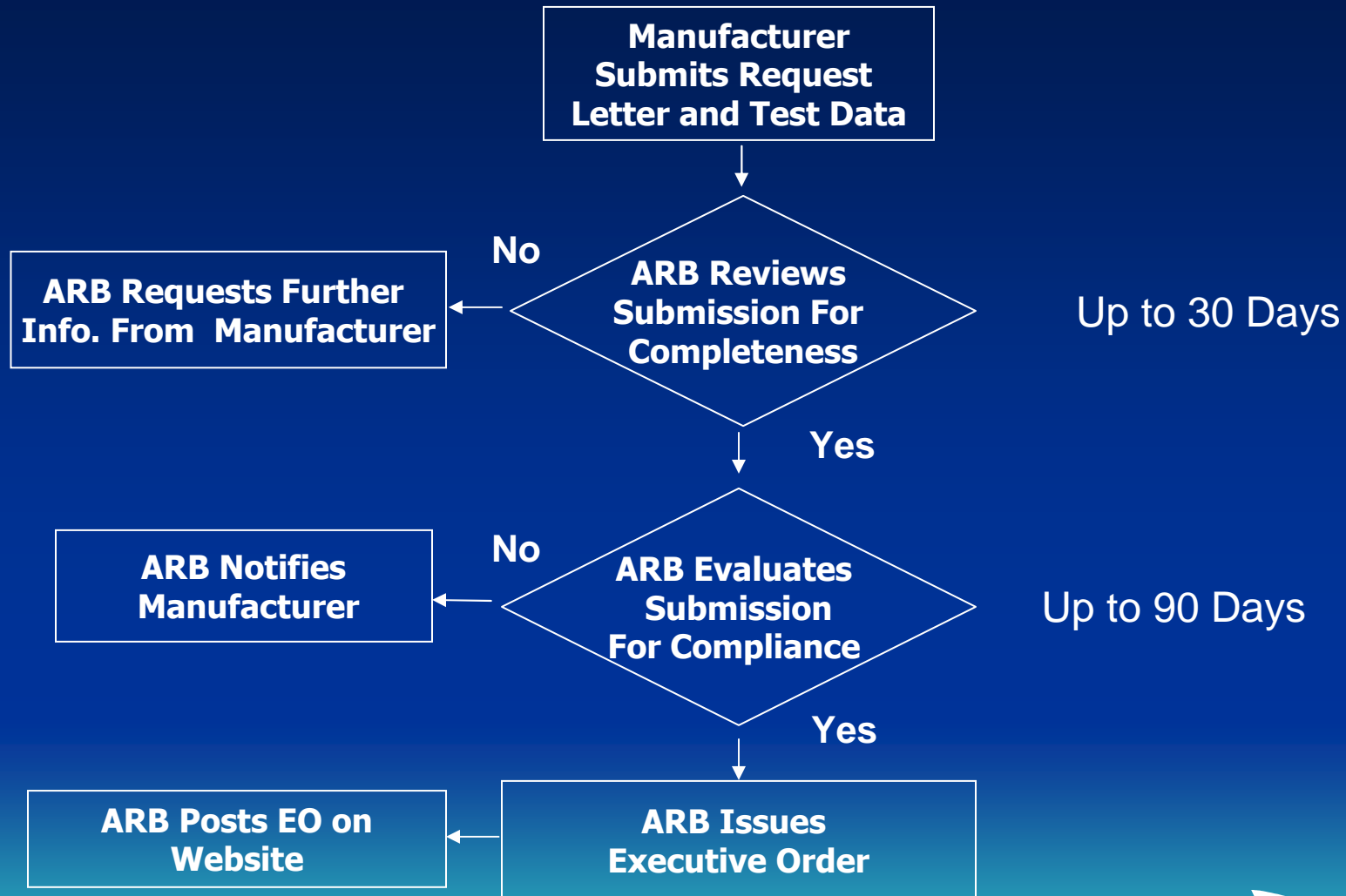
- ARB may approve alternate labeling for evaporative components
 - This may include EPA labeling

Major Evaporative Component Certification Steps

1. Test five components following ARB adopted test procedures
 - When applicable, data may be accepted from a previous test such as U.S. EPA certification data or OMT certification data
2. Submit a certification request letter, along with all test data to the Monitoring and Laboratory Division Chief
3. Receive Executive Order (EO) from ARB
4. Produce and label each evaporative component according to specification described in the EO request
5. Do Not introduce evaporative components into commerce in CA until EO received



Evaporative Component Certification Process Flowchart



ARB Contacts

- Contacts for Evaporative Component certification:

Jim Watson, Manager

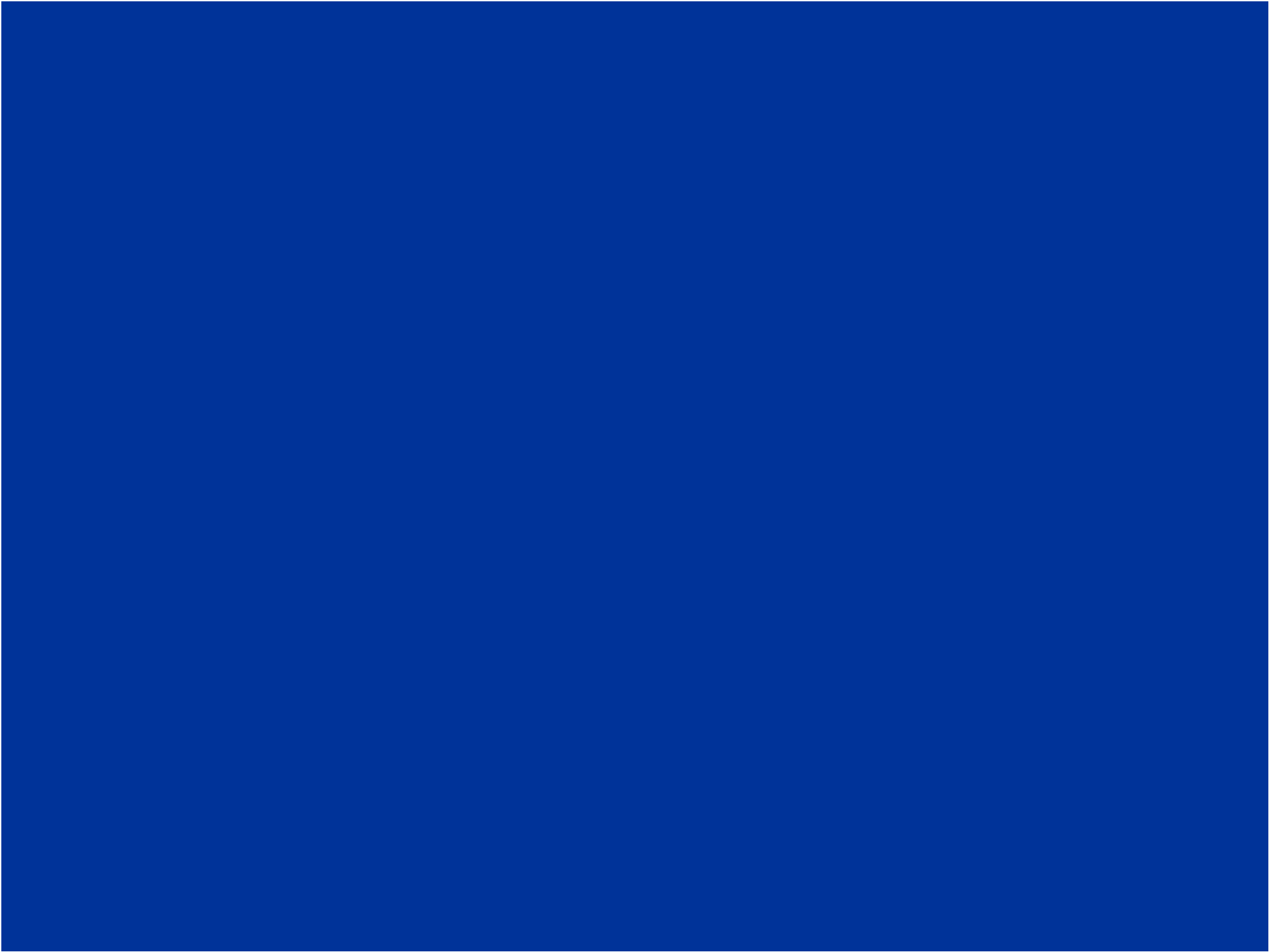
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April 28th, 2010





Spark Ignition Marine Vessel Evaporative Certification

For Evaporative System Builders

April 28, 2010



Marine Vessel Evaporative Certification

- “Evaporative System Builder” applies for certification and receives Executive Order (EO)
- Must certify every year
- Two certification methods:
 - Design-Based
 - Performance-Based



New Manufacturer Getting Started

- Register with U.S. EPA as a manufacturer to receive 3-digit code:
[<http://www.epa.gov/otaq/verify/mfr-code.htm>]
- Submit to ARB via regular mail a certification contact authorization letter.
 - Name, address, e-mail, MFR's name, EPA-assigned MFR's code
- ARB assigns
 - ARB manufacturer code to enable access to Document Management System (DMS)
 - Engineer to assist in certification process

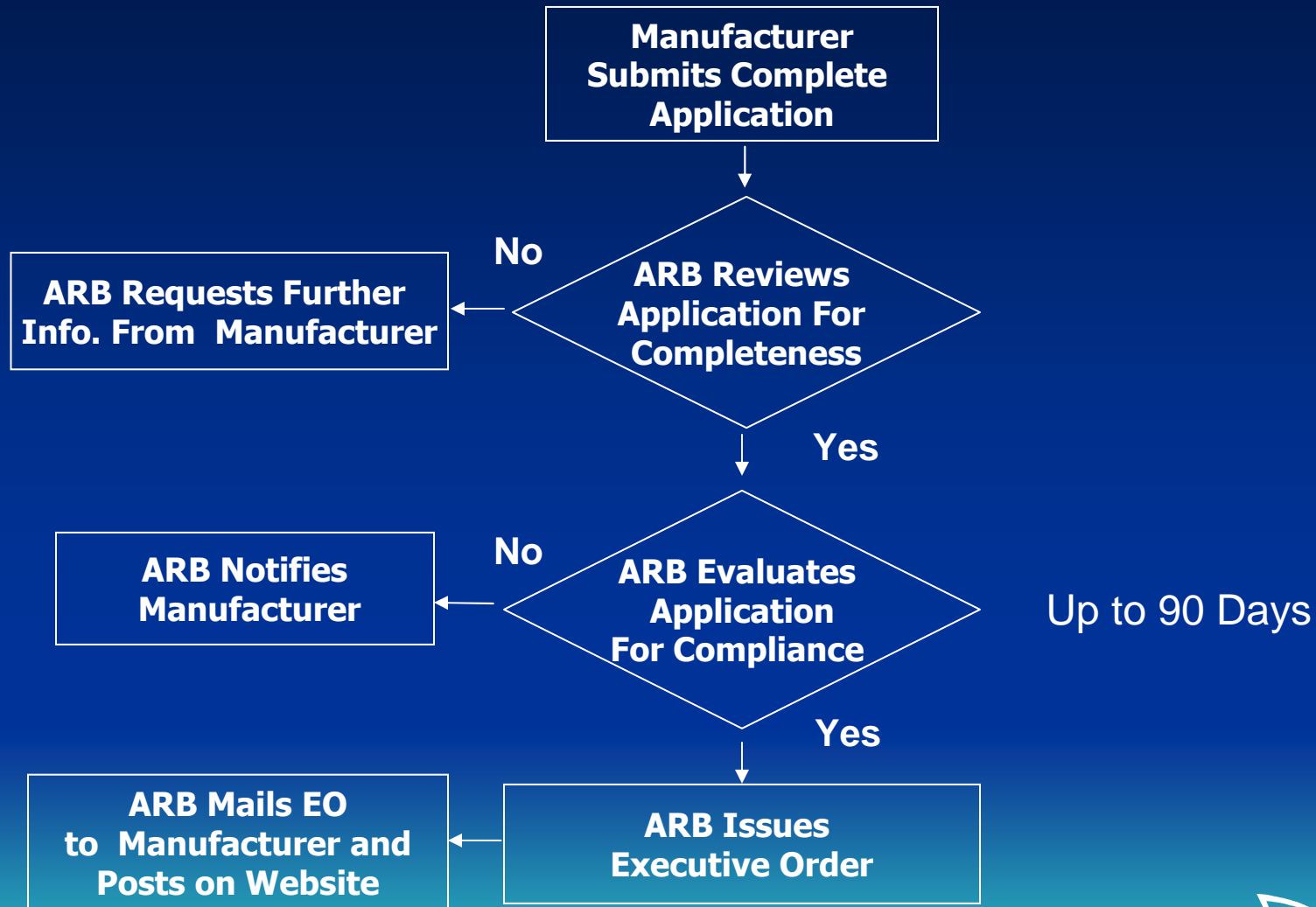


Major Marine Vessel Certification Steps

1. (New Mfrs.) Register with U.S. EPA to receive manufacturer code.
2. Group vessel models into evaporative families.
3. Create unique Evaporative Family code for each family using the same naming convention as EPA
4. Demonstrate compliance with either the Design or Performance requirements
5. Submit applications to ARB via the Internet (DMS).
6. Receive Executive Order (EO) from ARB.
7. Produce and label each marine vessel according to specifications described in applications.
8. Do not introduce marine vessels into commerce in CA until EO received.
9. Submit Running Changes if vessels, models, or components change during the model year



Marine Vessel Certification Process Flowchart



Design-Based Application Example Page 1

Date

Ms. Annette Hebert, Chief
Mobile Source Operations Division
Air Resources Board
9480 Telstar Avenue, Suite 4
El Monte, California 91734-2301

Dear Ms. Hebert:

XYZ Company hereby submits the certification application(s) for the following Spark Ignited Marine Vessel evaporative families.

Evaporative Families

- 1) XYZ.CM
- 2) XYZ.CP

XYZ Company makes the following statements regarding the 20XX model year certification of its spark-ignition marine vessels.

- 1) Conformance with the general standards and requirements as required in Title 13, Chapter 5, Article 14, sections 2850-2869 of the California Code of Regulations.
- 2) Conformance with the Deck Fill Plate Compatibility Standard as required in 13CCR, Section 2854(1).
- 3) Conformance with the California Fuel Compatibility Standard as required in 13CCR, Section 2854(2).
- 4) Conformance with the requirements that 2014 and later evaporative families with engines greater than 30 kW are equipped with fuel injection or equivalent.
- 5) Conformance with the vessel labeling and defects warranty requirements as required in 13CCR, Sections 2859, 2860, 2861, and 2862.
- 6) Production vessels shall be in all material respects the same as those for which certification is granted.

We anticipate that the start date of production for the above evaporative families will be about (date) and request that the Executive Orders be issued by (date).

If you have any questions, please contact me at xxx-xxx-xxxx.

Sincerely,

Name
Title

April 28th, 2010



Design-Based Application Example Page 2

SPARK IGNITED MARINE VESSEL EVAPORATIVE CERTIFICATION (DESIGN-BASED) Certification Summary Sheet

1. Model Year:
2a. Manufacturer:
2b. EPA Assigned Manufacturer Code:
2c. Contact information

<u>Manufacturer Contact</u>	<u>Production Plant Location/Contact</u>
Contact:	Contact:
Title:	Title:
Company:	Company:
Address:	Address:
City, State, Zip	City, State, Zip
Phone No.:	Phone No.:
Fax No.:	Fax No.:
Email:	Email:

3. Evaporative Family Name:
4. Application Type: (New or Running Change)

5. Confidential Information

a) Projected California sales(units): _____ b) Projected 50-State Sales (units): _____

c) Introduction into commerce date: _____

6. Engine Family (2014 Model Year and later)

All marine vessel models with engines greater than 30 kW must be equipped with engines that are fuel injected or that meet the equivalent fuel injection performance test. Do the engines meet this requirement? (yes/no): _____

7. Vessel Type:

<u>Less than 30 kW</u>	<u>Greater than 30 kW</u>
<input type="checkbox"/> Personal Watercraft	<input type="checkbox"/> Personal Watercraft
<input type="checkbox"/> Outboard	<input type="checkbox"/> Outboard
<input type="checkbox"/> Inboard	<input type="checkbox"/> Inboard
<input type="checkbox"/> Sterndrive	<input type="checkbox"/> Sterndrive
<input type="checkbox"/> Jetboat	<input type="checkbox"/> Jetboat
<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____
	<input type="checkbox"/> Trailerable (≤ 26 ft) <input type="checkbox"/> Nontrailable (> 26 ft)

Processed By: _____ Date Processed: _____ Reviewed By: _____ Date Reviewed: _____

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Design-Based Application Example Page 3

SPARK IGNITED MARINE VESSEL EVAPORATIVE CERTIFICATION (DESIGN-BASED)

MODEL SUMMARY

[illegible]

Design-Based Application Example Page 4

ADDITIONAL MODEL INFORMATION (OPTIONAL)							
OPTIONAL MODEL SUMMARY							
17. Marine Vessel or Boat Model	18. Nominal Fuel Line Length (mm)	19. Fuel Line Inside Diameter (mm)	20. Vessel Length (ft)	21. Vessel Type	22. Engine Families	23. Auxiliary Engine Engine Families (if applicable)	24. Comments
Sea Ray 210 Select	400	15	21	Sport Boat	AM9XM05.0ECT	N/A	
Sea Ray 230 Sundeck	600	15	23	Sport Boat	AM9XM05.7ECT	N/A	
Sea Ray 255 Sundancer	1000	15	26	Sport Cruiser	AM9XM06.2ECT	AM9XM.7472G0	Kicker motor pre-installed

Design-Based Application Example Page 5

25. Is the vessel's fuel system designed to support an auxiliary engine?(yes/no) ____ If yes, describe fuel system for any auxiliary engines and how the requirements in section 2853 or 2854 were met:

26. Labeling

a) Evaporative emission label format approved?(yes/no) ____ If yes, reference approval # : ____

b) Certification Label information:

28. Comments:



Design-Based Application Example Page 6

27. Warranty

- a) Evaporative Emission warranty approved?(yes/no) ____ If yes, reference approval # : ____
b) Evaporative Emission warranty statement:

DRAFT



ARB Contacts

- Contacts for Spark Ignition Marine Vessel certification:

Kumar Muthukumar, Manager

Off-Road Spark Ignition Engine Certification Section

(626) 575-7040 cmuthuku@arb.ca.gov

Kevin Curley

Off-Road Spark Ignition Engine Certification Section

(626) 350-6418 kcurley@arb.ca.gov

